

ABSTRACT

A recombinant adenovirus vector comprising an adenovirus genome DNA and an expression cassette is produced by inserting and ligating a cosmid sequence having recombinase recognition sequences at both ends and the expression cassette into either deletion sites of the adenovirus genome DNA with the deletion of the E1 region or E1 and E3 regions to thereby construct a recombinant cosmid/adenovirus vector; cotransfecting this recombinant cosmid/adenovirus vector and a recombinase-expression vector into a cell line producing adenovirus E1 protein; and deleting the cosmid vector sequence from the recombinant cosmid/adenovirus vector in the cells. This method makes it possible to conveniently and efficiently construct a recombinant adenovirus vector.